

04CO
04-18-01

0280

#2

OIPE

RAW SEQUENCE LISTING

DATE: 04/02/2001

PATENT APPLICATION: US/09/810,601

TIME: 10:57:08

Input Set : A:\29471.app

Output Set: N:\CRF3\04022001\I810601.raw

3 <110> APPLICANT: Donovan, Stephen
 5 <120> TITLE OF INVENTION: Composotions and Methods for Treating Gonadotrophin
 6 Related Illnesses
 8 <130> FILE REFERENCE: 2947
 C--> 10 <140> CURRENT APPLICATION NUMBER: US/09/810,601
 11 <141> CURRENT FILING DATE: 2001-03-15
 13 <160> NUMBER OF SEQ ID NOS: 44
 15 <170> SOFTWARE: PatentIn Ver. 2.1
 17 <210> SEQ ID NO: 1
 18 <211> LENGTH: 10
 19 <212> TYPE: PRT
 20 <213> ORGANISM: human
 22 <220> FEATURE:
 23 <221> NAME/KEY: MOD_RES
 24 <222> LOCATION: (1)
 25 <223> OTHER INFORMATION: Xaa at position 1 is PyroGlu; PYRROLIDONE
 26 CARBOXYLIC ACID
 28 <400> SEQUENCE: 1
 W--> 29 Xaa His Trp Ser Tyr Gly Leu Arg Pro Gly
 30 1 5 10
 33 <210> SEQ ID NO: 2
 34 <211> LENGTH: 10
 35 <212> TYPE: PRT
 36 <213> ORGANISM: Artificial Sequence
 38 <220> FEATURE:
 39 <223> OTHER INFORMATION: Description of Artificial Sequence: Gonadotrophin
 40 Release Hormone Analogue
 42 <220> FEATURE:
 43 <221> NAME/KEY: MOD_RES
 44 <222> LOCATION: (1)
 45 <223> OTHER INFORMATION: Xaa at position 1 is PyroGlu;; PYRROLIDONE
 46 CARBOXYLIC ACID
 48 <220> FEATURE:
 49 <221> NAME/KEY: MOD_RES
 50 <222> LOCATION: (10)
 51 <223> OTHER INFORMATION: Xaa at position 10 is Gly-NH2; AMIDATION;
 53 <300> PUBLICATION INFORMATION:
 54 <310> PATENT DOC NO: 5631226
 55 <311> PATENT FILING DATE: 1993-07-07
 56 <312> PUBLICATION DATE: 1997-05-20
 58 <300> PUBLICATION INFORMATION:
 59 <301> AUTHORS: Rousselle, Christophe
 60 <303> JOURNAL: Mol. Pharmacol.
 61 <304> VOLUME: 57
 62 <306> PAGES: 679-686
 63 <307> DATE: 2000
 65 <400> SEQUENCE: 2

ENTERED

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/810,601

DATE: 04/02/2001
 TIME: 10:57:08

Input Set : A:\29471.app
 Output Set: N:\CRF3\04022001\I810601.raw

```

W--> 66  Xaa His Trp Ser Tyr Gly Leu Arg Pro Xaa
      67  1          5          10
      70 <210> SEQ ID NO: 3
      71 <211> LENGTH: 10
      72 <212> TYPE: PRT
      73 <213> ORGANISM: Artificial Sequence
      75 <220> FEATURE:
      76 <223> OTHER INFORMATION: Description of Artificial Sequence: Gonadotrophin
      77   Release Hormone Analogue
      79 <220> FEATURE:
      80 <221> NAME/KEY: MOD_RES
      81 <222> LOCATION: (1)
      82 <223> OTHER INFORMATION: Xaa at position 1 is PyroGlu; PYRROLIDONE
      83   CARBOXYLIC ACID
      85 <220> FEATURE:
      86 <221> NAME/KEY: MOD_RES
      87 <222> LOCATION: (10)
      88 <223> OTHER INFORMATION: Xaa at position 10 is ethylamide;;
      90 <300> PUBLICATION INFORMATION:
      91 <310> PATENT DOC NO: 5631226
      92 <311> PATENT FILING DATE: 1993-07-07
      93 <312> PUBLICATION DATE: 1997-05-20
      95 <300> PUBLICATION INFORMATION:
      96 <301> AUTHORS: Rousselle, Christophe
      97 <303> JOURNAL: Mol. Pharmacol.
      98 <304> VOLUME: 57
      99 <306> PAGES: 679-686
     100 <307> DATE: 2000
     102 <400> SEQUENCE: 3
W--> 103 Xaa His Trp Ser Tyr Gly Leu Arg Pro Xaa
      104 1          5          10
      107 <210> SEQ ID NO: 4
      108 <211> LENGTH: 10
      109 <212> TYPE: PRT
      110 <213> ORGANISM: Artificial Sequence
      112 <220> FEATURE:
      113 <223> OTHER INFORMATION: Description of Artificial Sequence: Gonadotrophin
      114   Release Hormone Analogue
      116 <220> FEATURE:
      117 <221> NAME/KEY: MOD_RES
      118 <222> LOCATION: (1)
      119 <223> OTHER INFORMATION: Xaa at position 1 is PyroGlu; PYRROLIDONE
      120   CARBOXYLIC ACID
      122 <220> FEATURE:
      123 <221> NAME/KEY: MOD_RES
      124 <222> LOCATION: (10)
      125 <223> OTHER INFORMATION: Xaa at position 10 is Aza-Gly-NH2;
      127 <300> PUBLICATION INFORMATION:
      128 <310> PATENT DOC NO: 5631226
  
```

RAW SEQUENCE LISTING DATE: 04/02/2001
 PATENT APPLICATION: US/09/810,601 TIME: 10:57:08

Input Set : A:\29471.app
 Output Set: N:\CRF3\04022001\I810601.raw

```

129 <311> PATENT FILING DATE: 1993-07-07
130 <312> PUBLICATION DATE: 1997-05-20
132 <300> PUBLICATION INFORMATION:
133 <301> AUTHORS: Rousselle, Christophe
134 <303> JOURNAL: Mol. Pharmacol.
135 <304> VOLUME: 57
136 <306> PAGES: 679-686
137 <307> DATE: 2000
139 <400> SEQUENCE: 4
W--> 140 Xaa His Trp Ser Tyr Gly Leu Arg Pro Xaa
      141 1 5 10
144 <210> SEQ ID NO: 5
145 <211> LENGTH: 10
146 <212> TYPE: PRT
147 <213> ORGANISM: Artificial Sequence
149 <220> FEATURE:
150 <223> OTHER INFORMATION: Description of Artificial Sequence: Gonadotrophin
151 Release Hormone Analogue
153 <220> FEATURE:
154 <221> NAME/KEY: MOD_RES
155 <222> LOCATION: (1)
156 <223> OTHER INFORMATION: Xaa at position 1 is PyroGlu; PYRROLIDONE
157 CARBOXYLIC ACID
159 <220> FEATURE:
160 <221> NAME/KEY: MOD_RES
161 <222> LOCATION: (10)
162 <223> OTHER INFORMATION: Xaa at position 10 is Gly-NH2; AMIDATION;
164 <300> PUBLICATION INFORMATION:
165 <310> PATENT DOC NO: 5631226
166 <311> PATENT FILING DATE: 1993-07-07
167 <312> PUBLICATION DATE: 1997-05-20
169 <300> PUBLICATION INFORMATION:
170 <301> AUTHORS: Rousselle, Christophe
171 <303> JOURNAL: Mol. Pharmacol.
172 <304> VOLUME: 57
173 <306> PAGES: 679-686
174 <307> DATE: 2000
176 <400> SEQUENCE: 5
W--> 177 Xaa His Trp Ser Tyr Lys Leu Arg Pro Xaa
      178 1 5 10
181 <210> SEQ ID NO: 6
182 <211> LENGTH: 10
183 <212> TYPE: PRT
184 <213> ORGANISM: Artificial Sequence
186 <220> FEATURE:
187 <223> OTHER INFORMATION: Description of Artificial Sequence: Gonadotrophin
188 Release Hormone Analogue
190 <220> FEATURE:
191 <221> NAME/KEY: MOD_RES

```

RAW SEQUENCE LISTING DATE: 04/02/2001
 PATENT APPLICATION: US/09/810,601 TIME: 10:57:08

Input Set : A:\29471.app
 Output Set: N:\CRF3\04022001\I810601.raw

```

192 <222> LOCATION: (1)
193 <223> OTHER INFORMATION: Xaa at position 1 is PyroGlu; PYRROLIDONE
194 CARBOXYLIC ACID
196 <220> FEATURE:
197 <221> NAME/KEY: MOD_RES
198 <222> LOCATION: (10)
199 <223> OTHER INFORMATION: Xaa at position 10 is ethylamide;;
201 <300> PUBLICATION INFORMATION:
202 <310> PATENT DOC NO: 5631226
203 <311> PATENT FILING DATE: 1993-07-07
204 <312> PUBLICATION DATE: 1997-05-20
206 <300> PUBLICATION INFORMATION:
207 <301> AUTHORS: Rousselle, Christophe
208 <303> JOURNAL: Mol. Pharmacol.
209 <304> VOLUME: 57
210 <306> PAGES: 679-686
211 <307> DATE: 2000
213 <400> SEQUENCE: 6
W--> 214 Xaa His Trp Ser Tyr Lys Leu Arg Pro Xaa
      215 1 5 10
218 <210> SEQ ID NO: 7
219 <211> LENGTH: 10
220 <212> TYPE: PRT
221 <213> ORGANISM: Artificial Sequence
223 <220> FEATURE:
224 <223> OTHER INFORMATION: Description of Artificial Sequence: Gonadotrophin
225 Release Hormone Analogue
227 <220> FEATURE:
228 <221> NAME/KEY: MOD_RES
229 <222> LOCATION: (1)
230 <223> OTHER INFORMATION: Xaa at position 1 is PyroGlu; PYRROLIDONE
231 CARBOXYLIC ACID
233 <220> FEATURE:
234 <221> NAME/KEY: MOD_RES
235 <222> LOCATION: (10)
236 <223> OTHER INFORMATION: Xaa at position 10 is Aza-Gly-NH2;
238 <300> PUBLICATION INFORMATION:
239 <310> PATENT DOC NO: 5631226
240 <311> PATENT FILING DATE: 1993-07-07
241 <312> PUBLICATION DATE: 1997-05-20
243 <300> PUBLICATION INFORMATION:
244 <301> AUTHORS: Rousselle, Christophe
245 <303> JOURNAL: Mol. Pharmacol.
246 <304> VOLUME: 57
247 <306> PAGES: 679-686
248 <307> DATE: 2000
250 <400> SEQUENCE: 7
W--> 251 Xaa His Trp Ser Tyr Lys Leu Arg Pro Xaa
      252 1 5 10

```

RAW SEQUENCE LISTING DATE: 04/02/2001
 PATENT APPLICATION: US/09/810,601 TIME: 10:57:09

Input Set : A:\29471.app
 Output Set: N:\CRF3\04022001\I810601.raw

255 <210> SEQ ID NO: 8
 256 <211> LENGTH: 10
 257 <212> TYPE: PRT
 258 <213> ORGANISM: Artificial Sequence
 260 <220> FEATURE:
 261 <223> OTHER INFORMATION: Description of Artificial Sequence: Gonadotrophin
 262 Release Hormone Analogue
 264 <220> FEATURE:
 265 <221> NAME/KEY: MOD_RES
 266 <222> LOCATION: (1)
 267 <223> OTHER INFORMATION: Xaa at position 1 is PyroGlu; PYRROLIDONE
 268 CARBOXYLIC ACID
 270 <220> FEATURE:
 271 <221> NAME/KEY: MOD_RES
 272 <222> LOCATION: (6)
 273 <223> OTHER INFORMATION: Xaa at position 6 is D-Lys
 275 <220> FEATURE:
 276 <221> NAME/KEY: MOD_RES
 277 <222> LOCATION: (10)
 278 <223> OTHER INFORMATION: Xaa at position 10 is Gly-NH₂; AMIDATION
 280 <300> PUBLICATION INFORMATION:
 281 <310> PATENT DOC NO: 5631226
 282 <311> PATENT FILING DATE: 1993-07-07
 283 <312> PUBLICATION DATE: 1997-05-20
 285 <300> PUBLICATION INFORMATION:
 286 <301> AUTHORS: Rousselle, Christophe
 287 <303> JOURNAL: Mol. Pharmacol.
 288 <304> VOLUME: 57
 289 <306> PAGES: 679-686
 290 <307> DATE: 2000
 292 <400> SEQUENCE: 8

W--> 293 Xaa His Trp Ser Tyr Xaa Leu Arg Pro Xaa
 294 1 5 10

297 <210> SEQ ID NO: 9
 298 <211> LENGTH: 10
 299 <212> TYPE: PRT
 300 <213> ORGANISM: Artificial Sequence
 302 <220> FEATURE:
 303 <223> OTHER INFORMATION: Description of Artificial Sequence: Gonadotrophin
 304 Release Hormone Analogue
 306 <220> FEATURE:
 307 <221> NAME/KEY: MOD_RES
 308 <222> LOCATION: (1)
 309 <223> OTHER INFORMATION: Xaa at position 1 is PyroGlu; PYRROLIDONE
 310 CARBOXYLIC ACID;
 312 <220> FEATURE:
 313 <221> NAME/KEY: MOD_RES
 314 <222> LOCATION: (6)
 315 <223> OTHER INFORMATION: Xaa at position 6 is D-Lys

F.Y.I.
 (

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/810,601

DATE: 04/02/2001

TIME: 10:57:10

Input Set : A:\29471.app

Output Set: N:\CRF3\04022001\I810601.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application Number

L:29 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1

L:66 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2

L:103 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3

L:140 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4

L:177 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5

L:214 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6

L:251 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7

L:293 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8

L:335 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9

L:377 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10

L:419 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11

L:461 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12

L:503 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13

L:545 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14

L:587 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15

L:629 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16

L:666 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17

L:703 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18

L:740 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19

L:782 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20

L:824 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21

L:866 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22

L:903 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23

L:940 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24

L:977 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25

L:1019 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26

L:1061 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27

L:1103 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28

L:1140 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29

L:1177 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30

L:1214 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31

L:1256 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32

L:1298 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33

L:1340 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34

L:1377 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35

L:1414 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36

L:1451 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37

L:1493 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38

L:1535 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39

L:1577 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40